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IDDQ testing: A review

JM Soden, CF Hawkins, RK Gulati, W Mao - Journal of Electronic Testing, 1992 - Springer

... VDD signatures, **analysis** of the relationship between IDD a **test** vectors and the logic structure of ... It has been effective for several **fault** types on 40,000 tran- sistor sequential circuits and ... CMOS IC **transient** current, (2) the impedance loading of the tester, (3) current leakages into ...

Cited by 143 - Related articles

Artificial neural networks and their applications to power systems--a bibliographical ...

VSS Vankayaia, ND Rao - Electric power systems research, 1993 - Elsevier

... on a single machine system for a symmetri cal **fault** on any **point** along the ... the plant thermodynamics; emulation of core reload calculations; monitoring of plant parameters; **analysis** of plant ... 14 H. Kanoh, M. Kaneta and K. Kanemaru, Study on **fault location** system for transmission ...

Cited by 43 - Related articles - All 2 versions

[PDF] Screening digital relay data to detect power network fault response ...

DW Kosy, VS Gnnbery, MW Siegel - PROCEEDINGS-SPIE THE ..., 1993 - Citeseer

... Implication rules derive intermediate results such as percentage voltage drops and phase angle differences. Events are classified by **location** (internal vs external to line, near vs far from relay under **analysis**) and affected phases. ... **Fault response analysis** is an ...

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psu.

[PDF] ABNORMALITY DIAGNOSIS OF CIS USING ADAPTIVE RESONANCE ...

HOGIJI TANAKA, Y AKIMOTO, I ... - Neural Networks Theory, ..., 1996 - techlab.bu.edu

... Such a diagnostic system hiis little abilities of noise tolerance, **location** and cause of abnormality ... For the convenience after **analysis** of the exper- iment, raw signals from the sensor were also ... 3] H.Tanaka,et al., "Design and Evaluation of Neural Network for **Fault** Diagnosis", Proc ...

Related articles - View as HTML - All 3 versions

bu.e

A Test Methodology for High Performance MCMs

TM Storey, B McWilliam - Journal of Electronic Testing, 1997 - Springer

... suspect, but also enable other operational chains to be used to identify the precise **location**. ... This **analysis**, dubbed Testability **Analysis** for Random **Patterns** (TARP) [11], has a variety of capa ... deterministic stuck **fault** cover- age, 90-95% for flat pseudo random stuck **fault** and 80 ...

Cited by 3 - Related articles - BL Direct - All 4 versions

[BOOK] IDDQ testing of VLSI circuits

RK Gulati, CF Hawkins - 1993 - books.google.com

... In 1983 Toshio Maruyama designed a faster **power** supply current measurement circuit for **test** equipment ... VDD signatures, **analysis** of the relationship between IDDQ **test** vectors and the logic structure of ... Physical shorts and their related **fault** models bring to mind an image of a ...

Cited by 48 - Related articles

[PDF] Development of distributed problem solving systems for dynamic ...

GP Lekkas, NM Avouris, GK ... - IEEE transactions on ..., 1995 - Citeseer

... **Analysis** The **analysis** framework used in our **test**-case is the KADS four-layer model of expertise

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[11], The key idea of the ... This constitutes the **Fault** Typology Model (FTM ... The **location** of the error cannot be established with certainty from the messages received in the control room ...

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Symbolic reasoning and quantitative **analysis** for **fault** detection and isolation in ...

Z Fathi, WF Ramirez, AP Tavares, G Gilliland - Engineering Applications of ... 1993 - Elsevier
... 2) heating of feedwater, (3) provision of feedwater storage, and (4) **location** so as to ... for maintaining and upgrading the knowledge-base.52 ZOHREH FATHI et al.: **FAULT** DETECTION AND ...
Estimation-based methods that resort to fundamental **analysis** provide the rationale for a ...

[Cited by 1](#) - [BL Direct](#)

Use of Fuzzy Cause-Effect Digraph for Resolution **Fault** Diagnosis for Process ...

RF Shih, LS Lee - Industrial & Engineering Chemistry Research, 1995 - pubs.acs.org
... 1994) might be (1) process modeling, parameter estimation; (2) cluster **analysis**, statistical **analysis**;
(3) artificial ... the symbols ek- and ek+ express the initial **point** vj and terminal **point** vi of ... to eliminate these difficulties, we will first categorize six types of **fault** propagation **patterns** ...

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[PDF] Probabilistic Modeling for **Fault** Classification of Plasma Equipment

AM Ison - 1999 - beam.berkeley.edu

... 154 Figure 6-14. **Location** of **pattern** defined with respect to onset of (bottom match) **power** 1.2.2. Data **Analysis** and Decision Making ... The **fault** detection mechanism finds **abnormalities** in the continuous state, ...

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berk

Practical problems in the statistical **analysis** of reliability data

JI Ansell, MJ Phillips - Applied Statistics, 1989 - jstor.org

... The **transient** behaviour of the SRP has been considered by Blumenthal et al. (1973). ... Typically the censored data must be singly censored if published tables of critical **points** are to be used. ...
Again the concern in this **analysis** is with the first failure in the cycle **test** time interval. ...

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rpl.e

[PDF] An integrated model-based approach for real-time on-line diagnosis of ...

FD McKenzie, AJ Gonzalez, R Morris - Engineering Applications of ..., 1998 - ece.odu.edu

... quantitative simulation for the purpose of system **analysis**. If used, within the conventional device- ...
Table 1 shows the IPC conflict-oriented algorithm results for single **point** ... The number of the **fault** type in the left most column of the tables are associated with the **fault** **location** ...

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odu.

[PDF] Modeling human eye behavior during mammographic scanning: Preliminary ...

KP White, TL Hutson, TE ... - IEEE Transactions on ..., 1997 - www.homes.doc.ic.ac.uk

... Defining the **location** as a function of screen coordinates and the **location** at observation number (or time) ... At a particular **point** in time, the system is found to be in exactly one of ... implications for the mammogram representation are that the states defined by cluster **analysis** are non ...

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ic.ac

A prototype neural network to perform early warning in nuclear **power** plant

JM Renders, A Goossens, F De Viron, M De ... - Fuzzy Sets and ..., 1995 - Elsevier

... The parameters influencing these scenarios are the **location** and the importance of the break affecting ... question of choosing an adequate threshold remains open, even if the **analysis** of the ... in the conditions of our study (simulated data, restricted number of **fault** types considered ...

[Cited by 3](#) - [Related articles](#) - [All 5 versions](#)

[PDF] Application of Statistical **Fault** Detection to Civil Engineering Systems

C Stamoulis - 1993 - dspace.mit.edu

mit.

... signals propagate along the system or one of its components, to the monitoring **location** where the ... In some cases, the functions themselves may also serve in **fault** diagnosis. ... to obtain the impulse response function and/or the transfer function is cross-correlation **analysis** in the ...

[Related articles](#)

[Proceedings of a seminar on the potential for LMFBF boiling detection by acoustic/ ...](#)

WM Carey, RW Albrecht - Seminar on the potential for LMFBF boiling ..., 1976 - [osti.gov](#)

... by Hans K. Fauske Reactor **Analysis** and Safety Division Argonne National Laboratory I.

INTRODUCTION ... second of these **points** and include whole-core faults and local faults (first viewgraph). ... risk to public health if a **fault** cannot propagate from one subassembly ...

[Related articles](#) - [View as HTML](#)

[\[PDF\] A review of on-line condition monitoring techniques for three-phase squirrel- ...](#)

[spec](#)

WT Thomson - ... on Diagnostics for Electrical Machines, **Power** ..., 1999 - [spectraquest.com](#)

... causes on stator windings (covering all voltages) as in [7] and only summary **points** are presented ...

6. Ideally, a prediction of the fundamental cause/s of the problem/**fault** should be provided via ...

The accurate on-line prediction of slip, from only a current **analysis**, to cope with such ...

[Cited by 49](#) - [Related articles](#) - [All 3 versions](#)

[Chapter VIII Infrared Techniques for Electric Utilities](#)

TL HURLEY - Infrared methodology and technology, 1994 - [books.google.com](#)

... Mixing of visible and IR can greatly assist in increased definition of the **fault** locations ... An oil sample **analysis** is recommended as the next course of action ... At the **point** of excessive resistance, there is a greater than 50% chance of existent physical damage within the elbow on the ...

[Cited by 2](#) - [Related articles](#) - [All 2 versions](#)

[An Investigation of Gear Mesh Failure Prediction Techniques](#)

JJ Zakrajsek - 1989 - [Storming Media](#)

... detect a variety of failures, whereas FM4 is more sensitive to a single tooth **fault**, such as ... is averaged in the time domain with each record start- ing at the same **point** in a ... The FM4 **analysis** method is comprised of the standard deviation and kurtosis of the difference signal along ...

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[\[BOOK\] ... monitoring via vibratory signature analysis utilising data collected by ...](#)

[imp](#)

MP Ribeiro - 1999 - [imperial.ac.uk](#)

... The research described in this thesis is focused on vibration monitoring in machinery whose **location** makes it difficult to gain direct access. ... that we intend to analyse for **fault** detection purposes. ... non-stationary data parameters, time-averaging **analysis** procedures can produce ...

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[PDF] S/390 G5 CMOS microprocessor diagnostics

psu.

P Song, F Motika, DR Knebel, RF Rizzolo, MP ... - IBM Journal of Research ..., 1999 - Citeseer
... that do not conform to the classical or conventional stuck-at or transition **fault** models. ... test concept used in the G5 design is based on on-board random **pattern** generation and ... tester-based approaches are described, it should be noted that several global **test** and environmental ...

Cited by 12 - Related articles - View as HTML - BL Direct - All 6 versions

[PDF] Logical **fault analysis** of fault secure systems using VHDL

nrc-

LJM Coppens - 1997 - nrc-bnc.ca
... Technology Analysis Defect Mapping File Example Input **Pattern** Excitation File Example ... incorporated into the design or as provided by external **test** hardware. Incorporating a self-check- ... the **fault** security of a system since typically their **analysis** is based on a list of logical faults. ...

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[PDF] Screening digital relay data to detect **power network fault** response ...

psu.

DW Kosy, VS Grinbery, MW Siegel - PROCEEDINGS-SPIE THE ..., 1993 - Citeseer
... not yet look at the shape of **transient** waveforms and hence does not **test** for breaker ... **Fault** response **analysis** is an interpretation task in which the actual response of equipment to ... of the stimuli, a record of the actual response, a computation of the response **pattern** expected or ...

Related articles - View as HTML - BL Direct - All 11 versions

Olympus end of life **anomaly**—a perseid meteoroid impact event?

R Douglas Caswell, N McBride, A Taylor - International Journal of Impact ..., 1995 - Elsevier
... A design **fault** resulted in a sticking scanning mirror under some direct solar conditions ... AIT (Assembly Integration **Test**) test lines allow an electrical path to the gyros ... short term telemetry interruptions were experienced which resulted from the spacecraft antenna **pattern** fringing in ...

Cited by 31 - Related articles - BL Direct - All 7 versions

Autonomous vacuum cleaners must be bayesian

R Brittain, B D'Ambrosio, D Hall - ... of AAAI 1993 Fall Symposium Series: ..., 1993 - aaai.org
... A more extensive discussion of the use of this **test** for **fault** detection can be found in[3]. The **fault** detection schemes we have ... IEEE Transactions on **Pattern Analysis** and Machine Intelligence, 15(2), March 1993. [12] J. Pearl. Probabilistic Reasoning in Intelligent Systems. ...

Cited by 1 - Related articles - All 2 versions

[PDF] ABNORMALITY DIAGNOSIS OF CIS USING ADAPTIVE RESONANCE ...

bu.e

HOGIH TANAKA, Y AKIMOTO, I ... - Neural Networks Theory, ..., 1996 - techlab.bu.edu
... length of a particle: S=28 nm, Y=40 mm 0 Abnormal conditions **test**.ed: 1 ... and SGrossberg, "ART3: Hierarchical Search Using Chemical Transmitters in Self-Organizing **Pattern** Recognition Architectures ... 101 H.Ogi et al., "Fault Diagnosis System for GIS using an Artificial Neural ...

Related articles - View as HTML - All 3 versions

[PDF] An integrated model-based approach for real-time on-line diagnosis of ...

odu.

FD McKenzie, AJ Gonzalez, R Morris - Engineering Applications of ..., 1998 - eca.odu.edu
... knowledge base involved would not grow based on the number of **fault** patterns of a system but

rather ... Our approach does not use such a function. It does use a **Conflict Test (CT)** ... and **fault isolation strategies** provided by the **conflict-oriented reasoner**, the result is an **integrated ...**

Cited by 6 - Related articles - View as HTML - BL Direct - All 2 versions

Chapter VIII Infrared Techniques for Electric Utilities

TL HURLEY - Infrared methodology and technology, 1994 - books.google.com

... These **test results** indicated a substantial need for IR testing within a pre- dictive maintenance program. ... of visible and IR can greatly assist in increased definition of the **fault locations**. ... a spiral design, the heat reaction of the overloaded strands assume the same thermal **pattern**. ...

Cited by 2 - Related articles - All 2 versions

[PDF] Automated Downlink **Analysis** for the Deep Space Network

D Watola, JB Hampshire II - Telecommunications and Data ..., 1996 - tda.jpl.nasa.gov

... Furthermore, the two specific outputs can change for a given training **pattern** as the network adapts ... learning as the basis for the model **analysis** at the heart of discriminative **fault diag- nosis** ... η is only meaningful when the classifier forms a robust model of the system; **analysis** of an ...

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Practical problems in the statistical **analysis** of reliability data

JJ Ansell, MJ Phillips - Applied Statistics, 1989 - jstor.org

... give protection. Again the concern in this **analysis** is with the first failure in the cycle **test** time interval. If a ... system. Such a system can fail more than once and the **pattern** of times between successive failures is important. The ...

Cited by 42 - Related articles - All 2 versions

[BOOK] Reliable computer systems: design and evaluation

DP Siewiorek, RS Swarz - 1988 - books.google.com

... Common techniques for matching empirical data to **fault** distributions, such as the maximum likelihood estimator, linear regression, and the chi-square goodness-of-fit **test**, are discussed. ... in electronic equipment, and the life-cycle testing and data **analysis** approaches. ...

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[PDF] Probabilistic Modeling for **Fault** Classification of Plasma Equipment

AM Ison - 1999 - bcam.berkeley.edu

... 141 Table 6-23. Box m **Test** results: Within two machine types, within the same **fault** group (gas line grounding problems ... 158 Table 6-32. Average probability of linking a **pattern** to a **fault** category ... In order to confirm the hypothesis that a **fault** has occurred and to identify an assign ...

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[PDF] Distributed Control for Paralleled PWM Inverters in the DC Zonal Distribution ...

ML Marniac - 1999 - edocs.nps.edu

... 14. SUBJECT TERMS DC-to-AC PWM Inverter, Synchronous Reference Frame **Analysis**, Power Line Communication, Droop ... and inductor in phase 'b', through Switch B to the common **point** P. Thus ... in the design process, Matlab's system design tools were used to **test** the open ...

All 5 versions

[BOOK] Recent advances in computer-aided control systems engineering

M Jamshidi, CJ Hergert - 1992 - inf.ethz.ch

... Control theory was developed since it was recognized that there exist **patterns** be- tween ... example: it may be necessary for the higher-level controllers to **test** the lower ... i Crisp * Knowledge Selection * Data Fusion Heuristics Reasoning Task Planning **Fault Analysis** h Identification ...

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[BOOK] Artificial-intelligence-based electrical machines and drives: application of ...

P Vas - 1999 - books.google.com

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nps.

ethz

... exposition, strategic and market related issues are touched on at a number of **points**; and other ... estimators, control 278 9.1 General 278 9.2 AI-based steady-state and **transient analysis** of dc machines 278 9.2.1 Conventional **analysis** 278 9.2.2 ANN-based **analysis** 279 9.2 ...

Cited by 223 - Related articles - BL Direct - All 2 versions

Synchronous Motors

J Kirtley, N Ghai - Electric motor handbook, 1998 - books.google.com

... **points** d and e at minimum speed, accelerates again, and finally synchronizes at **point**/... motors: locked-rotor **current**; temperature rise; locked-rotor torque; overspeed; harmonic **analysis** and TIF ... factory and whose windings have not since been disturbed, the **test** voltages should ...

Related articles - All 2 versions

[BOOK] Microprocessor application to medical monitoring

PJ Carlson - 1981 - pebbleripple.com

... These beat-to-beat temporal **patterns** have been modelled by a low order Markov process [67]. ... of ST depression can be found [38], and it is also useful for arrhythmia **analysis**. ... to choose rather the site giving maximum ST depression during a preliminary exercise **test**, but this ...

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pebl

Monitoring and alarm interpretation in industrial environments

S Cauvin, MO Cordier - AI Communications, 1998 - IOS Press

... A primary **fault** is a change in the evolution of a variable which is directly due to a ... performed, evaluating the consistency between the arcs and the state of the variables; the **test** is more ... set of observable events, failures) which can be used in on-line recognition of **patterns** [25]. ...

Cited by 36 - Related articles - BL Direct - All 6 versions

aber

Information for Readers and Abbreviations Used in IEEE Power Engineering ...

B Effects - IEEE Power Engineering Review, 1991 - ieeeexplore.ieee.org

... The leads are at the 200 gauss **point** in both designs. ... of high Tc materials for operation at 77 K. Other suggestions for materials research included use of the large volume of magnetic field for large instrument **test**- ing, imaging of ... Engineering Economic **Analysis**: Overview and ...

Related articles

GENERAL SAFETY-RELATED DESIGN CRITERIA

S Serra - Safety design criteria for industrial plants, 1989 - books.google.com

... situations within industrial plants shall be identified on the basis of the accident configuration **pattern**. ... by the **test** itself, and immediate repair after failure of the equipment under **test**. ... systems and structures, and is therefore more complex than the classical **fault** tree **analysis**. ...

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[PDF] Defect classes—an overdue paradigm for CMOS IC testing

psu.

CF Hawkins, JM Soden, AW Righter, FJ ... - International Test ..., 1994 - Citeseer

... These production and application results are consistent with failure **analysis** studies that show most CMOS IC defects are ... including the following types of tests: at-speed functional, delay **fault**, random **pattern**, SAF, V ... The SAF **test** provides Boolean controllability and observability ...

Cited by 167 - Related articles - View as HTML - All 6 versions

Transient power supply current monitoring—a new test method for CMOS VLSI ...

ST Su, RZ Makki, T Nagle - Journal of Electronic Testing, 1995 - Springer

... open **fault** and can, in many cases, be detected by the saf **test** using a “two vectors” **test pattern**. ... do not create any path from PWR to GND and, hence, the I_{zoo} **test** may fail to ... The PSCS **analysis** method utilizes statistical models, such as the “auto-regressive model” [16] or the ...

Cited by 54 - Related articles - Bi Direct - All 2 versions

IDDQ testing: A review

JM Soden, CF Hawkins, RK Gulati, W Mao - Journal of Electronic Testing, 1992 - Springer

... VDD signatures, **analysis** of the relationship between IDD a **test** vectors and the logic ... spe- cifically for IDD a testing; they comprise Supplemental IDD a **test pattern** sets. ... As more effective Supplemental IDD Q **test** generation approaches for sequential circuits are developed ...

Cited by 143 - Related articles

[PDF] Digital integrated circuit testing using transient signal analysis

psu.

J Plusquellic, D Chiarulli, S Levitan - International Test Conference, 1996 - Citeseer

... Our technique, **Transient Signal Analysis** (TSA), with its advantages in defect detection and process insensi- tivity, is proposed as an addition ... state and the circuit operates logically correctly under this **test** sequence. ... The same type of **pattern** exists for POs 329, 370, 421 and 430 ...

Cited by 44 - Related articles - View as HTML - Bi Direct - All 12 versions

[PDF] Analog fault diagnosis based on ramping power supply current signature ...

tamu

SAS Somayajula, E Sánchez-Sinencio, J ... - IEEE Transactions on ..., 1996 - amsc.tamu.edu

... A brief description of the Kohonen network and its **pattern** classification capabilities are given in the ... that performs the derivative of each response and forms a set of optimal **test points** at which ... The data is obtained by performing a **transient analysis** on the circuit swept from 1 to ...

Cited by 33 - Related articles - Bi Direct - All 3 versions

Differential fault analysis of secret key cryptosystems

psu.

E Biham, A Shamir - Lecture Notes in Computer Science, 1997 - Springer

... At this **point** we should note that small differences in the **fault** models might crucially affect the capabilities and the complexities of the attacks. ... If the **fault** ... To make the **analysis** simpler, we assume that we can apply a low level phys- ical stress to the tamper-resistant device when it ...

Cited by 453 - Related articles - Bi Direct - All 23 versions

Automated test pattern generation for analog integrated circuits

W Verhaegen, G Van der Plas, ... - IEEE VLSI Test ..., 1997 - doi.ieeecomputersociety.org

... aatpg is the **test pattern** generator which is equipped with an interface for communication with

the ... The disadvantage of this technique is the large CPU time : the **test** generation for ... For larger circuits or tests with more faults this approach using **transient analysis** really requires ...

Cited by 21 - Related articles - All 5 versions

Detection and **location** of faults and defects using digital signal processing

C Thibault - VLSI Test Symposium, 1995 - doi.ieeecomputersociety.org

... [2] developed a **fault** detection technique using **pattern** recognition methods. ... The work presented in [12] is also a good indication that frequency spectrum **analysis** can be useful for ... In [14], a sinusoidal stimulus plus some DC offset was applied in order to **test** memory ICs, while ...

Cited by 36 - Related articles - All 5 versions

Characterization of CMOS Defects using **Transient Signal Analysis**

JF Plusquellic, DM Chiarulli, SP ... - on Defect and Fault ..., 1998 - doi.ieeecomputersociety.org

... We prepare the waveforms shown in Figure 6 for **analysis** by creating Signature Waveforms or ... In particular: • Opg: We noted a delayed rising transition in the Active **test** pad waveform ... the patterns of other defect-free inverter SWs would be baseline (no **pattern**) or characterized ...

Cited by 12 - Related articles - All 15 versions

[PDF] Digital IC device testing by **transient signal analysis (TSA)**

JF Plusquellic, DM Chiarulli, SP Levitan - Electronics Letters, 1995 - kona.ee.pitt.edu

... (TSA) JF Plusquellic, DM Chiarulli and SP Levitan Indexing terms: **Transient response, Transient signal analysis, Digital device test-** ing ... These variations can be analyzed using **pattern** recognition techniques and neural processing is pro- ... Neural Net Diagnostics for VLSI **Test**. ...

Cited by 10 - Related articles - View as HTML - BL Direct - All 5 versions

[PDF] ... service restoration using the artificial neural network approach and **pattern** ...

YY Hsu, HM Huang - IEE Proceedings. Generation, ..., 1995 - ntur.lib.ntu.edu.tw

... operation Consider again a **fault** at point A (section 1) on distribu- tion feeder SM64. ... In the example, the load **pattern** used as the **test pattern** does not belong to the training set for the ANN method and the **pattern** recognition approach. ...

Cited by 22 - Related articles - View as HTML - BL Direct - All 5 versions

Fault modeling and simulation using VHDL-AMS

AJ Perkins, M Zwolinski, CD Chalk, BR ... - Analog Integrated Circuits ..., 1996 - Springer

... the faulty copy differs from that of the original the **fault** is detectable using that **test pattern**. ... Even if the **fault** model is imprecise, **test** patterns designed to detect such faults will sometimes ... the output resistance (AC **analysis**) * the voltage gain pole (AC & pole-zero **analysis**) The two ...

Cited by 21 - Related articles - BL Direct - All 6 versions

[PDF] S/390 G5 CMOS microprocessor diagnostics

P Song, F Motika, DR Knebel, RF Rizzolo, MP ... - IBM Journal of Research ..., 1999 - Citeseer

... LBIST extraction phase The goal of this phase is to identify which **pattern** in the LBIST **test** sequence fails ... Since the nature of LBIST signature **analysis** is to compress the response data for many patterns into a MISR signature, the first step in the diagnostic process is to ...

Cited by 12 - Related articles - View as HTML - BL Direct - All 6 versions

... **analysis** for **fault** detection of mixed-signal ICs based on dynamic **power-supply** ...

J Arguëlles, S Bracho - Journal of Electronic Testing, 1996 - Springer

... the **fault** detection process, are **supply current** waveform digitalization techniques [13], **pattern** recog- nition ... that leads to unac- ceptable performance degradation in the circuit under **test** (CUT). ... to enlarge the **transient** time in order to simplify the external signal **analysis**; and then ...

Cited by 7 - Related articles - BL Direct - All 2 versions

Built-in **current** sensor for IDDQ testing in deep submicron CMOS

T Catlin, L Anghel, M Nicolaidis - ... IEEE VLSI Test ..., 1999 - doi.ieeecomputersociety.org

... and (A=I, B=I, Cin=O) -> (A=O, B=I, Cin=I). The first **pattern** induces a ... **luoo** **fault** grading can thus be performed, this allowing fast and reliable failure **analysis**; - to offer to ... the circuit operation, allows a high flexibility on selecting **faulty current** levels during the **test** application, and ...

Cited by 7 - Related articles - All 9 versions

i~ D~ D Pulse Response Testing Applied to Complex CMOS ICs

J Beasley, S Pour-Mozafari, D ... - ... **TEST** ..., 1997 - doi.ieee.computersociety.org

... of the **transient current** frequency spectrum data was used to perform the **pattern** classification for ... In other words, in a production **test** environment, it is possible that only a limited ... Software neural network **analysis** code for the neural network was provided by MATLAB and its ...

Cited by 24 - Related articles - BL Direct - All 4 versions

[PDF] Test Stimulus Generation for Steady-State Analysis of Analogue and Mixed- ...

sotc

CD Chaik, M Zwolinski, BR Wilkins - ... Mixed-signal **Test** workshop, 1997 - ecs.soton.ac.uk

... The **fault** coverage of the tests derived from AC sensitivity **analysis** should be compared to that of an arbitrary **test pattern** generation scheme ... **fault** coverage for each stimulus; the amplitude of the sinusoid was again 0.25 V. It is clear that our proposed **test** generation scheme ...

Cited by 8 - Related articles - View as HTML - All 4 versions

Quiescent current analysis and experimentation of defective CMOS circuits

JA Segura, VH Champac, R Rodriguez- ... - Journal of Electronic ..., 1992 - Springer

... The bridging defects considered are those affecting the nodes of the middle inverter as shown in Figure 1. To **test** the defective ... To detect this defect an input **pattern** must drive node V 2 to the logic low value, as this node is assumed to ... 2.3.2. IDD Q **Analysis** of a Defective Circuit. ...

Cited by 33 - Related articles - All 2 versions

[PDF] Intrinsic leakage in low-power deep submicron CMOS ICs

goo!

A Keshavarzi, K Roy, C ... - ... **Test** ..., 1997 - utdallas.classes.googlepages.com

... This paper reports transistor intrinsic leakage reduction as functions of bias **point**, temperature, source-well ... It is used in failure **analysis** to assist defect **location** and also by reliability ... IDDQ as a general **test pattern** measurement is primarily used to detect circuit defects, design ...

Cited by 152 - Related articles - View as HTML - BL Direct - All 6 versions

RIFLE: A general purpose pin-level fault injector

psu,

H Madeira, M Rela, F Moreira, JG ... - Dependable Computing: ..., 1994 - books.google.com

... up to 32 bits) Activation Address Count (8 hits) Delay (16 hits) Activation **Pattern** (up to ... As mentioned above, the Trace Memory records all **points** in which a **fault** can be injected ... three purposes: 1) error feedback, 2) detection of discarded errors, and 3) detailed behavior **analysis**. ...

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Transient subsegmental hepatic parenchymal enhancement on dynamic CT: a sign ...

SJ Lee, JH Lim, WJ Lee, KH Lim, SW ... - Journal of computer ..., 1997 - journals.lww.com

... Hepatic angiography was performed for **evaluation** of the vascularity of the mass and ... Postbiopsy helical dynamic CT was done for **detection** of an additional mass after ... hepatocellular carcinoma results in a subsegmental wedge-shaped hyperperfusion **abnormality** adjacent to ...

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Optimal QRS detector

NV Thakor, JG Webster, WJ Tompkins - Medical and Biological ..., 1983 - Springer

... Differences between normal and **abnormal** QRS morphologies may cause amplitude variations as large as 70% as ... 4 **Evaluation** All **detector** designs represent some form of compromise ... FPs provide such information, we plot TPs and FPs for various **detection** criteria (HANCOCK ...

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Performance-based evaluation of graphic displays for nuclear power plant control ...

RJ Petersen, WW Banks, DI Gertman - Proceedings of the 1982 ..., 1982 - portal.acm.org

... This portion of the **evaluation** consists of four separate experimental tasks: **Detection**--addressing the alerting function; Spatial Localization--addressing the localization portion of problem ... Now, instead of merely reporting the **detection** of an **abnormal** parameter, the subject ...

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[PDF] Mechanical failure detection of circuit breakers

ML Lai, SY Park, CC Lin, H Naidu, A ... - ... on Power Delivery, 1988 - kalman.kaist.ac.kr

... 4, October 1988 MECHA)ICAL FAILURE **DETECTION** OF CIRCUIT BREAKERS ML Lai SYPark ... SE Wright Electric Power Research Institute Palo Alto, California 94303 Abstract - The **evaluation** of the ... of a circuit breaker, ie, whether the unit is in normal or **abnormal** condition, has ...

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[CITATION] ... Operator Support System for Boiling-Water Reactor Abnormal ...

Y Higashikawa, FMH Works, L Hitachi ... - Proceedings of the ..., 1986 - Amer Nuclear Society

Cited by 2 - Related articles

Design, implementation and evaluation of amicrocomputer-based portable ...

NV Thakor, JG Webster, WJ Tompkins - Medical and Biological ..., 1984 - Springer

... (d) Much research and **evaluation**, on a ... by separating the clusters (c) statistical methods--these use correlation analysis and template matching to identify **abnormal** patterns. Our arrhythmia-**detection** algorithms are decision-logic types, based only on the R-to-R interval and ...

Cited by 16 - Related articles - All 5 versions

Developing a knowledge base for noise diagnostic expert system of reactor ...

K Dach, V Krett, J Vav ... in, L Pecinka - Progress in Nuclear Energy, 1988 - Elsevier

... be measu- red directly, but by means of signal analysis the **abnormal** amplitudes of ... diagnostic system are: - monitoring of equipment state in all operation situations, - **detection** of deviations ... internal behaviour 211 In case of no change in descriptor during **evaluation** of **current** ...

Cited by 2

[PDF] Sonja Ebron Student Member IEEE

IFONPD FEEDERS - IEEE Transactions on Power Delivery, 1990 - dte.us.es

... form in order for the network to distinguish between normal and **abnormal** feeder operation. ... or random times; thus, the program is ideal for fault simulation and **transient** analysis. Since a successful HIF **detection** scheme must be able to distinguish between normal **current** ...

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[PDF] Neural-network-based adaptive matched filtering for QRS **detection**

Q Xue, YH Hu, WJ Tompkins... - IEEE Transactions on ..., 1992 - minds.wisconsin.edu

... may be examined for evidence of ischemia, or the waveform may be classified as normal or **abnormal**. ... el ni.: NEURAL-NHTWORK-BASED ADAPTIVE MATCHED FILTERING FOR QRS **DETECTION** TABLE I Results of **Evaluation** of Three QRS **Detection** Algorithms Using ...

Cited by 124 - [Related articles](#) - All 7 versions

[CITATION] DATA BANK FOR ARRHYTHMIA **DETECTION** PROGRAMS

F HAGEMEIJER, B GLASER, C ... - Trends in computer- ..., 1977 - North Holland

[Related articles](#)

[CITATION] Component Monitoring Systems

JS Fusto, RL Turner - ... for Nuclear Power Plant Operation and ..., 1986 - Amer Nuclear Society

[Related articles](#)

Selective-set-invalidation (SSI) for soft-error-resilient cache architecture

SH Hwang, GS Choi - ACM SIGARCH Computer Architecture News, 1999 - portal.acm.org

... of fault-injection location is very crucial for the fault effect **evaluation** of target ... **Fault Detection**: During the analysis of the design, system-level fault manifestations are observed. ... In radiation experiment, the errors that cause **abnormal** program flow, program hang, and system er ...

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[PDF] A comparison of the noise sensitivity of nine QRS **detection** algorithms

GM Friesen, TC Jannett, MA Jadalilah, ... - IEEE Transactions ..., 1990 - docentes.unal.edu.co

... for a given measurement situation and, once set, will not change during a **detector evaluation**. ... 1(c), the signals resulting from muscle contraction can be assumed to be **transient** bursts of ... **Derivative 1) FS1**: This algorithm is a simplification of the QRS **detection** scheme presented ...

Cited by 356 - [Related articles](#) - All 9 versions

... learning. Part II: Rule learning control of a pipeline under normal and **abnormal** ...

DE Goldberg - Engineering with Computers, 1987 - Springer

... heuristic is capable of learning how to operate a pipeline under normal and **abnormal** conditions alike. ... This re- quires that we leave our **current** best rules alone and try to form better ... a simplified model of the pipeline dy- namics as compared to the **transient** optimization study of ...

Cited by 280 - [Related articles](#) - All 9 versions

[PDF] Automated digital fault recording analysis on the Eskom transmission system

E Stokes-Waller - Southern African Conference on Power System ..., 1993 - asys.co.za

... network static impedance characteristics have proven to be adequate for protection performance analysis and **evaluation** [1]. ... of balanced initial fault recording conditions (eg phase voltage and **current** magnitudes); • No **abnormal** initial fault ... Alternative **detection** methods ...

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[CITATION] STANDARD DEVIATION OF SAMPLE

PTS VALUE, LWN RANGE - Electric and magnetic activity of the central ..., 1988 - AGARD

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[PDF] Noninvasive evaluation of local myocardial thickening and its color-coded ...

H Kanai, H Hasegawa, N Chubachi, Y ... - IEEE Transactions ..., 1997 - ecel.tohoku.ac.jp
... Fig. 1. An illustration explaining the process of the **evaluation** of the local change in thickness during myocardial contraction/relaxation based on noninvasive **detection** of velocity signals $\{v(x_i; t)\}$ and the instantaneous positions $\{x_i(t)\}$ of multiple N points $\{i\}$ in the heart wall. ...
Cited by 109 - [Related articles](#) - [View as HTML](#) - [BL Direct](#) - All 5 versions

[BOOK] Reliable computer systems: design and evaluation

DP Siewiorek, RS Swarz - 1998 - books.google.com
... Models for Permanent Faults: The MIL-HDBK-217 Model 57 Distribution Models for Intermittent and **Transient** Faults 65 ... 5, **Evaluation** Criteria Ch. ... A, Peterson and Weldon [1972] for coding theory; Sellers, Hsiao, and Bearson [1968b] for error-**detection** techniques Proceedings ...
Cited by 598 - [Related articles](#) - All 6 versions

Context related artefact detection in prolonged EEG recordings

M van de Velde, IR Ghosh, PJM Cluitmans - Computer methods and ..., 1999 - Elsevier
... Visual **evaluation** is usually performed on relatively long segments of 10–60 s where artefacts are ... and normality of the error term will most likely not be met during **abnormal** and artefact ... Therefore, using coefficients or errors alone is not enough for **detection** of changes in the ...
Cited by 11 - [Related articles](#) - All 6 versions

[PDF] MECH&ICAL FAILURE DETECTION OF CIRCUIT BREAKERS

V Demjanenko, LK Benenson - IEEE Transactions on ..., 1988 - metalab.uniteh.edu.my
1124 IEEE Transactions on Power Delivery, Vol. 3, No. 4, October 1988 MECH&ICAL FAILURE **DETECTION** OF CIRCUIT BREAKERS ... Abstract - The **evaluation** of the mechanical condition of acircuit breaker, Le, whether theunitisin normal or **abnormal** condition, has ...
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[PDF] Transient analysis of cage induction machines under stator, rotor bar and ...

HA Toliyat, TA Lipo - IEEE Transactions on Energy Conversion, 1995 - ece.wisc.edu

... This is because of the necessity of accurate **determination** of the additional derating required ... rotor has substantially grown to involve several broken bars, making the **detection** of one ... In this paper a comprehensive **analysis** of multiphase cage induction machines under stator or ...

Cited by 165 - Related articles - BL Direct - All 6 versions

Condition monitoring of machinery using motor current signature analysis

RC Kryter, HD Haynes - Conference: 7. power plant dynamics, control and ..., 1989 - oost.gov

... spectral peaks and other features commonly encountered in traditional machinery vibration **analysis**, such as ... 3.2 DETECTION OF MOV ABNORMALITIES ... torque switch settings and/or varying switch trip points valve stem taper stem/nut thread wear **abnormal** line voltage ...

Cited by 31 - Related articles - View as HTML - All 3 versions

Transient simulation and analysis of a three-phase five-limbstep-up transformer ...

CM Arturi - IEEE Transactions on Power Delivery, 1991 - ieeexplore.ieee.org

... **Transient** simulation and **analysis** of a three-phase five-limbstep-up transformer following ... Abstract Theoretical and experimental analyses are presented of the electromagnetic **transient** following the ... phase five-limb step-up transformer; this means an **abnormal** condition where ...

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[CITATION] Abnormal Trend Detection of Sequence-Disordered Data Using EWMA ...

JM Fan, RS Guo, SC Chang, JH ... - 1996 IEEE/ ..., 1996 - Institute of Electrical & Electronics ...

Cited by 8 - Related articles

[PDF] Interpretation and analysis of power quality measurements

CJ Melhorn, MF McGranaghan - IEEE Transactions on Industry ..., 1995 - Citeseer

... **Analysis** tools for processing measurement data will be described ... Disturbances are measured by triggering on an **abnormality** in the voltage or the **current** ... proposed in the Guide for Applying Harmonic Limits on the Power System (Draft 2)[2] for preliminary **evaluation** of harmonic ...

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Model-based validation of a DOx sensor

DW Clarke, PMA Fraher - Control Engineering Practice, 1996 - Elsevier

... The uncertainty bounds are computed automatically using the **analysis** described above: note that ... this particular sensor there is the additional bonus of the **determination** of a ... of a dissolved oxygen sensor leads to modelbased validation, with: fault **detection.** **determination** via a ...

Cited by 14 - Related articles - BL Direct - All 2 versions

[PDF] Analysis of switched reluctance motor drive under fault conditions

VK Sharma, SS Murthy, B Singh - CONFERENCE RECORD-IEEE ..., 1996 - eprint.iitd.ac.in

... The work mainly concentrated on fault **detection**, isolation and management. ... The above **analysis** of excitation pattern gives the modeling strategy to be adopted for the voltage ... The comparison of speed reversal response during normal 4-phase excitation and **abnormal** 3-phase ...

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Abnormal transconductance and **transient** effects in partially depleted SOI ...

Y Zhang, DK Schroder, H Shin, S Hong, T ... - Solid State ..., 1999 - Elsevier

... 5. Conclusion. **Abnormal** transconductance due to **transient** effects is observed in partially depleted SOI MOSFETs. The transconductance dip is related to the change of the hole and electron densities during the turn-on **transient**, leading to a change of the drain **current**. ...

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Representation of pump characteristics for **transient analysis**

CS Martin - Performance characteristics of hydraulic turbines and ..., 1983 - csa.com

... This paper reviews the **current** state of knowledge regarding the steady-flow characteristics of ... for steady flow and (2) the importance of the assumption of similarity for **transient analysis**. ... four-quadrant pump data is presented along with a tabulation of **abnormal** characteristics of ...

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[BOOK] Computer-aided **analysis** of power electronic systems

V Rajagopalan - 1987 - books.google.com

... steady state without having to compute the entire **transient** state, a topic of **current** importance. ... program would help the design and development engineer to carry out the **transient analysis** of the performance of the converter under normal and **abnormal** conditions, thereby ...

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[CITATION] **Analysis** and Application of the Conversion Method of the Excitation ...

D Haibo, S Liping - ELECTROTECHNICAL JOURNAL, 1999 - en.cnki.com.cn

... 2. Xuzhou Power Supply Company, Xuzhou 221005, China); Digital Simulation Study and **Analysis** on **Abnormal** Operation of ... China); APPLICATION OF OPTICAL **CURRENT** TRANSDUCER TO SINGLE-PHASE GROUNDING FAULT **CURRENT** DETECTION IN POWER ...

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Transient performance of the saturated induction machine

A Campeanu - Electrical Engineering (Archiv fur Elektrotechnik), 1995 - Springer

... For an **abnormal** high saturation level ($U = 300$ V) the differences between the curves $M(t ...$ The decomposition on orthogonal axes is necessary for computer **determination** and not for physical reasons ... considered d, q-frame the equations assume specific forms for the **analysis** of a ...

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[PDF] **Analysis** and control of torque pulsations in **current** fed induction motor ...

TA Lipo - Electric Power Components and Systems, 1979 - ee.wisc.edu

ANALYSIS AND CONTROL OF TORQUE PULSATIONS IN **CURRENT** FED INDUCTION MOTOR DRIVES TA ... continuously at such a resonance condition could result in **abnormal** wearing of ... of stator **current** and rotor flux linkage the equations which define **transient** behavior of ...

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[CITATION] ... : An Expert System for **Transient Analysis** of Nuclear Reactors and ...

N Barbet, M Dumas, G Mihelich, ... - ... in the nuclear ..., 1988 - Plenum Publishing Corporation

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[PDF] Mechanical failure **detection** of circuit breakers

ML Lai, SY Park, CC Lin, H Naidu, A ... - ... on Power Delivery, 1988 - kalman.kaist.ac.kr

... and SE Wright Electric Power Research Institute Palo Alto, California 94303 Abstract - The **evaluation** of the ... structure and interrupting medium are incorporated so as to enable the **determination** of the ... of subtle changes, which may not be discerned through MS **analysis** of the ...

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Evaluation of the dielectric breakdown of reoxidized nitrided oxide (ONO) in flash ...

Cl. Cha, EF Chor, H Gong, AQ Zhang, L Chan, ... - Microelectronics ..., 1998 - Elsevier

... Consequently, device functionality and performance **evaluation** measurements conducted on test structures are realistic ... flat portion of the V-tplot that follows the initial voltage **transient** is sloping ... surmise only a few probable causes to discuss for the **abnormal** breakdown of ...

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Developing a knowledge base for noise diagnostic expert system of reactor ...

K Dach, V Kretz, J Vavrin, L Pecinka - Progress in Nuclear Energy, 1988 - Elsevier

... of reactor internal behaviour 211 In case of no change in descriptor during **evaluation of current** ... In case of **determination** of some deviation, the expert system finds out from the set ... be understood as interim but illustrated approximation of transformation of noise **analysis** results ...

Cited by 2

[CITATION] Development and validation of a model to predict EMI effects of ...

... , DE Thomas, FS Nickel, WE Reid, ... - Symposium ..., 1987 - Institute of Electrical and Electronics ...

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Performance Evaluation of a 22.5/30 KW 270 Volts Direct Current Generator ...

JG Nairus, DA Criminski - 1993 - Storming Media

... Performance **Evaluation** of a 22.5/30 kW 270 Volts Direct ... also documents WL/POOC-1's Data Acquisition System modified for 270 Vdc test and **analysis**. Generator system parameters **measured** include **transient** responses to load applications and removals, ripple voltages ...

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... testing of solenoid-operated valves using **transient current signature analysis**

ED Blakeman, RC Kryter - 1997 - osti.gov

... A methodology has been developed for in situ diagnostic testing of dc-actuated solenoid-operated valves (SOVs) by **analysis** of the characteristics of the **transient current** waveform accompanying valve actuation. This waveform, which is used to identify **abnormal** operation, is ...

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